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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/658,734	09/11/2000	Winfried Edelmann	AHN-001DV1	9039	
959	7590 08/10/2005		EXAM	EXAMINER .	
LAHIVE & 28 STATE ST	COCKFIELD, LLP.		LANKFORD JR, LEON B		
BOSTON, M			ART UNIT	PAPER NUMBER	
•			1651		

DATE MAILED: 08/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Comments		09/658,734	EDELMANN ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Leon Lankford	1651			
Period fo	The MAILING DATE of this communication Reply	on appears on the cover sheet wi	th the correspondence address			
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) days to period for reply specified above, the maximum statutory tree to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, however, may a rion. s, a reply within the statutory minimum of thin period will apply and will expire SIX (6) MON a statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication ANDONED (35 U.S.C. & 133).	, , , , , , , , , , , , , , , , , , ,		
Status						
1)⊠	Responsive to communication(s) filed on	27 May 2005.				
2a)□		This action is non-final.				
3)□	Since this application is in condition for a closed in accordance with the practice ur	•	* * * * *			
Disposit	ion of Claims		•			
5)□	Claim(s) 13,24 and 29-71 is/are pending 4a) Of the above claim(s) is/are wi Claim(s) is/are allowed. Claim(s) 13,24 and 29-71 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	thdrawn from consideration.				
Applicat	ion Papers					
9)[The specification is objected to by the Exa	aminer.				
10)[) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
	Applicant may not request that any objection	* '	` '			
11)	Replacement drawing sheet(s) including the c The oath or declaration is objected to by t		•).		
Priority (ınder 35 U.S.C. § 119			•		
12) [a) [Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Elee the attached detailed Office action for	ments have been received. ments have been received in A e priority documents have been sureau (PCT Rule 17.2(a)).	oplication No received in this National Stage			
Attachmen						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94	4) LInterview S Paper Nots	ummary (PTO-413))/Mail Date			
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO-1449 or PTO/s r No(s)/Mail Date		formal Patent Application (PTO-152) —·			

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 13 & 24 & 29-71 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The instant claims are indefinite because the language of a claim must make it clear what subject matter the claim encompasses to adequately delineate its "metes and bounds". Claims 13 & 24 fail to set forth how the "contacting occurs" notably there is no indication of in what system the MSH5 is contained. It is unclear what "activity" applicant is also claiming. Applicant should make it clear what exactly is being measured.

See, e.g., the following decisions: In re Hammack, 427 F 2d. 1378, 1382, 166
USPQ 204, 208 (CCPA 1970); In re Venezia 530 F 2d. 956, 958, 189 USPQ 149, 151 (CCPA 1976); In re Goffe, 526 F 2d. 1393, 1397, 188 USPQ 131, 135 (CCPA 1975); In re Watson, 517 F 2d. 465, 477, 186 USPQ 11, 20 (CCPA 1975); In re Knowlton 481 F 2d. 1357, 1366, 178 USPQ 486, 492 (CCPA 1973). The courts have also indicated that before claimed subject matter can properly be compared to the prior art, it is essential to know what the claims do in fact cover. See, e.g., the following decisions: In re Steele, 305 F 2d. 859, 134

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USPQ 292 (CCPA 1962); In re Moore 439 F 2d. 1232, 169 USPQ 236 (CCPA 1969); In re

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Merat, 519 F 2d. 1390, 186 USPQ 471 (CCPA 1975).

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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3. Claims 13, 24 and 29 – 71 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Hollingsworth.

Hollingsworth teaches that MSH5 is a meiosis specific gene, active to facilitate meiosis and meiotic chromosome synapsis (abstract) in bacteria, yeast and humans (p.1729). Hollingsworth additionally teaches that mutant MSH5 (or inhibited activity thereof) results in decreased spore (or gamete) viability (p.1735, 1736). Moreover, Hollingsworth suggests that inhibited or reduced activity of MSH5 inhibits meiosis, chromosome synapsis and decreases fertility.

Hollingsworth (1995) specifically teaches a direct relationship of MSH5 to meiosis and chromosome synapsis in yeast, bacteria and humans (prior to October 1, 1998).

Given the teachings of Hollingsworth it would have been obvious to assay for a candidate for meiotic inhibition and logically it follows contraception by testing putative agents for their ability to inhibit MSH5.

Accordingly, the claimed invention was prima facie obvious to one of ordinary skill in the art at the time the invention was made especially in the absence of evidence to the contrary.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leon Lankford whose telephone number is 571-272-0917. The examiner can normally be reached on Mon-Thu 7:30-6.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Leon B Lankford Jr Primary Ekaminer

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